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Substitute for form 1449/PTO		Complete if Known		
Substitute for form 1110/110		Application Number	10/580,512	
	INFORMATION D	ISCLOSIDE	Filing Date	May 23, 2006
INFORMATION DISCLOSURE		First Named Inventor	Ichikawa, Yoshitaka	
	STATEMENT BY	•	Art Unit	1614
	(Use as many sheets a	s necessary)	Examiner Name	TBA
S	neet 1 of	4	Attorney Docket Number	8031-013-US

			U. S. PATENT D		
Examiner Initials*	Cite No.1	Document Number Number-Kind Code ^{2 (# known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevan Figures Appear
		US-3,683,076	08-08-1972	11. 11. 11. 11. 11. 11. 11. 11. 11. 11.	
		^{US-} 4,870,061	09-26-1989		-
· .		^{US-} 5,840,715	11-24-1998		
		^{US-} 6,136,795	10-24-2000		
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	FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages			
		Country Code ³ "Number ⁴ "Kind Code ⁵ (if known)	MM-DD-YYYY		Or Relevant Figures Appear	٦		
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Substitute for form 1449/PTO		Complete if Known
Sabalitae Ibi John 1944/11 TO	Application Number	10/580,512
INFORMATION DISCLOSURE	Filing Date	May 23, 2006
STATEMENT BY APPLICANT	First Named Inventor	Ichikawa, Yoshitaka
(Use as many sheets as necessary)	Art Unit	1614
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Sheet 2 of 4	Attorney Docket Number	8031-013-US

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		ALTMAN, R. D., et al., "Practice Guidelines in the Management of Osteoarthritis," Osteoarthritis and Cartilage, (1998), 6(Supp.A):22-24.	
		BOHNE, W., "Glukosamine In Der Konservativen Arthrosebehandlung," Med. Welt. Nr., (1969), 30:1668-1671.	
		CHU, S. C., et al., "Analysis of the Cytokin-Stimulated Human Inducible Nitric Oxide Synthase (iNOS) Gene," Biochem. Biophys. Res. Commun., (1998), 248:871-878.	
		CHOU, T., et al., "Glycosylation of the c-Myc transactivation domain," Proc. Natl. Acad. Sci. USA, (1995), 92:4417-4421.	
		DE VRIES, B. J., et al., "Quantitation of glycosaminoglycan metabolism in anatomically intact articular cartilage of the mouse", Rheumatol. Int. (1986) 6,6:273-281.	
		DIEPPE, P., "Molecular Markers for Joint and Skeletal Diseases: Notes from the General Discussion," Acta. Orthop. Scand., (1995), 66(Supp.266):211-212.	
		FINGL, E. et al., "The Pharmacological Basis of Therapeutics," (1975), Chapter 1:1-46.	
		GABRIEL, S. E., et al, "Direct Medical Costs Unique to People with Arthritis," J. Rheumatol., (1997), 24:719-725.	
		GENG, Y., et al., "Tyrosine Kinases Are Involved With the Expression of Inducible Nitric Oxide Synthase in Human Articular," J. Cell. Physiol., (1995), 163:545-554.	
		HALTIWANGER, R. S., et al., "O-Glycosylation of Nuclear and Cytoplasmic Proteins: Regulation Analogous," Biochem. Biophys. Res. Commun., (1997), 231:237-242.	

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Signature	Considered	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) Application Number 10/580,512 Filing Date May 23, 200 First Named Inventor Ichikawa, Y Art Unit 1614 Examiner Name TBA	Complete if Known	
- Substitute for Ioan 1443/1 TO	Application Number	10/580,512
INFORMATION DISCLOSURE	Filing Date	May 23, 2006
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Sheet 3 of 4	Attorney Docket Number	8031-013-US

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		HEVEL, J. M., et al., "Nitric-Oxide Synthase Assays," Methods Enzymol., (1994), 233:250-258.	
		HOCHBERG, M. C., et al., "Guidelines for the Medical Management of Osteoarthritis," Arthritis & Rheumatism, (1995), 38(11):1535-1546.	
-		INEROT, S., et al., "Articular-Cartilage Proteoglycans in Aging and Osteoarthritis," Biochem. J., (1978), 169:143-156.	
		KORNFELD, S., et al., "The Feedback Control of Sugar Nucleotide Biosynthesis in Liver, " Proc. Natl. Acad. Sci. USA, (1964), 52:371-379.	
, .		KOLM-LITTY, J., et al., "High Glucose-induced Transforming Growth FactorB1 Production Is Mediated by the Hexosamine Pathway," J. Clin. Invest., (1998), 101(1):160-169.	
		KARIN, M., "The Beginning of the End: lkB Kinase (lKK) and NF-kB Activation," J. Biol. Chem., (1999), 274(39):27339-27342.	
		LAWRENCE, R. C., et al., "Estimates of the Prevalence of Arthritis and Selected Musculoskeletal Disorders," Arthritis & Rheumatism, (1998), 41(5):778-799.	
		LOZADA, C. J., et al., "Chondroprotection in Osteoarthritis," Bull. Rheum. Dis., (1997), 46(7):5-7.	
		MEVORACH, D., et al., "Osteoarthritis and Chondroprotection," Isr. J. Med. Sci., (1994), 30:928-931.	
		MARCH, L. M., et al., "Economics of Osteoarthritis: A Global Perspective," Balliere's Clinical Rheumatology, (1997), 11(4):817-834.	

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Cabbaace of folin 1440/110	Application Number	10/580,512
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STATEMENT BY APPLICANT	First Named Inventor	Ichikawa, Yoshitaka
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		NEWTON, R., et al., "Superinduction of COX-2 mRNA By Cycloheximide and Interleukin-1B Involves Increased Transcription and Correlates," FEBS Letters, (1997), 418:135:138.	
		PARIKH, A. A., et al., "IL-6 Production in Human Intrestinal Epithelial Cells Following Stimulation with IL-1 B Is Associated," J. Clin. Research, (1997), 69:139-144.	·
	-	SANDY, J. D., et al., "Chondrocyte-Mediated Catabolism of Aggrecan: Aggrecanase- Dependent Cleavage Induced by Interleukin-1," Biochem. J. (1998), 335:59-66.	
		SANDY, J. D., et al., "Chondrocyte-Mediated Catabolism of Aggrecan: Evidence for a Glycosylphosphatidylinositol-Linked," Arch. Biochem. Biophys. (1999), 367(2):258-264.	
		SETNIKAR, I., et al., "Antireactive properties of Glucosamine Sulfate," Arzneim-Forsch./Drug Res, (1991), 41(1):157-161.	
		SCHARSTUHL, A., et al., "Loss of Transforming Growth Factor Counteraction on Interleukin 1 Mediated Effects in Cartilage of Old Mice," Ann. Rheum. Dis., (2002), 61:1095-1098.	

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